

Name \_\_\_\_\_

### Review Chapter 5

*Evaluate. Give exact answers.*

1.  $\sin(\frac{11\pi}{4})$

2.  $\cos(-\frac{59\pi}{3})$

3.  $\tan(\frac{23\pi}{6})$

4.  $\sec(-\frac{37\pi}{4})$

5.  $\csc(\frac{87\pi}{6})$

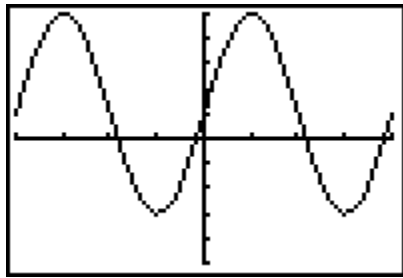
6.  $\cot(\frac{23\pi}{2})$

7. Sketch the graph of the six trigonometric functions. State the domain, range, period, amplitude, symmetry and if the function is even or odd.

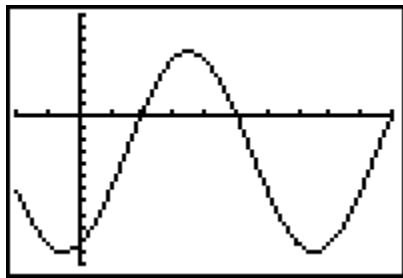
8. Sketch the graph of  $y = -4\sin(\frac{\pi}{3}x - \pi) + 3$

9. Sketch the graph of  $y = 6\cos(4x - \frac{\pi}{2}) - 2$

10. Find the equations of the graphs below. Yscl = 1



$$xscl = \frac{\pi}{4}$$



$$xscl = 2$$

11. Solve for all values of  $x$  :  $3\sin(2x-1) = 1.2$

12. Solve for all values of  $x$ :  $2 - 3\cos(\frac{\pi}{3}(x-3)) = 4$

13. Solve for all values of  $x$ :  $3\sin^2 x = -4\sin x - 1$

14. Review double and half angle problems.